

PRASAR BHARTI
BROADCASTING CORPORATION OF INDIA
DIRECTORATE GENERAL:DOORDARSHAN

SPECIFICATIONS FOR STATIC UNDER MONITOR DISPLAY SYSTEM

Specifications No. : SD 02/2010
Dated : 18.05.2010

1. SCOPE

The specifications lay down the required performance characteristics of static Under Monitor Display (UMD) units with necessary power supply unit for Studio/OB applications in Doordarshan network.

2. GENERAL

The static Under Monitor Display system will be used to provide display of the sources of the video signals along with tally lamps for "On-Air" selection indication. These UMDs will be fixed under the video monitors of the Production Control Room or the Master Control Room. On selection of any source, as program output on the Production Switcher or Routing Switcher, the tally provided in the corresponding UMD unit and/or in the respective video monitor should light up to give an indication to the production team.

3. ESSENTIAL FEATURES

- a. Only internationally reputed products meeting the specifications should be offered. The firm should enclose the user list of the broadcaster to whom the offered product has been supplied.
- b. The static UMDs alongwith the internal or external Power Supply unit should be from the leading manufacturer and the firm should enclose the user list where the offered product is in use.
- c. The static UMD should consist of a back lit LED assembly illuminating a photographic film called Legends, which mimics the appearance of the dynamic display.
- d. The firm has to also provide two legends per UMD as detailed in **Appendix-I**.
- e. The offered under monitor display units should be able to get the tally information either from the Production / Routing Switcher or from the existing Signal/Tally distributor installed.
- f. The static UMD should be capable of displaying minimum of eight characters in length. Characters should be proportionately spaced. Each

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character should have 17 to 25 mm height.

- g. The characters should be displayed in two different colours such as red and green, according to the tally selection. The ON-AIR tally can be provided through the different coloured LED end blocks on both the ends of the character.
- h. The static UMDs should be powered either internally by built in power supply unit or by a rack mountable external power supply unit.
- i. The Power Supply unit should be able to feed power to a minimum of 18 static UMDs.
- j. All the display mnemonics should be static. However, it should be possible to change the displayed information by changing Legends/labels/transparencies.
- k. It should be possible to adjust the brightness of the display to suit the ambient light.
- l. The system should support Production Switchers of all the leading manufacturers like Echolab, Ross, GVG, Pinnacle, Sony etc. The system should also support Routing Switchers of all the leading manufacturers like Harris, Network, Miranda, GVG etc.
- m. The firm should ensure the completeness of the system. It will be the sole responsibility of the tenderer to offer all the items including cables, connectors etc. which are necessary to complete the system. The firm should also offer the layout of the offered system to help understand the completeness of the system.
- n. The Bill of Material required per set is given in **Appendix-II**.
- o. The equipment are being procured for various Doordarshan centres as per **Appendix-III**.

4. TECHNICAL SPECIFICATIONS

- 1) Number of Characters : 8 or more, display colour should change such as Green to Red via the tally control selection.
- 2) Character height : 17 to 25 mm.
- 3) Display mount : Universal mount
- 4) Power supply
 - (i) 19" Rack mountable either built in internal or external Power Supply unit

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- (ii) operating on AC 230 V \pm 5%, 50 Hz.
Loading capacity : able to load at least 18 Static UMDs.

- 5) Tally control : Through network cable
6) Power regulation : On board voltage regulation should be there.
7) Legends : Replaceable, provided with a removable neutral density filter in the front of the legends.

5. COMPLIANCE

- (a) Any substandard equipment included in the offer may cause the rejection of complete offer with the sole responsibility of bidder.
(b) The firm should provide the offered un-priced bill of material in electronic form also in addition to the hard copy for ease of technical evaluation.
(c) **A point-by-point compliance statement from the principal manufacturer in respect of all the points laid down in these specifications is to be enclosed along with the offer in the format given below. Mere signature on the copy of the specifications shall not be accepted as a compliance statement.**

The figures so mentioned should be supported by record of these in the technical literature enclosed with the tender and reference to the page number of enclosed literature for all features and technical specifications should be mentioned in the relevant column. Offers without the compliance statement or with incomplete compliance statement will liable to be rejected with the sole responsibility of the bidder. Any deviation from the specification detailed in the compliance statement is to be highlighted separately.

Sr. No of DD specs.	DD specs.	Compliance (Yes/No)	Performance Fig. of equipment Offered.	Reference to the Page Number of enclosed literature	Deviations, in case of non-compliance	Optional items if any reqd. to make the sys. Compliant to DD specs.	Features in the offered Product which exceeds DD specs.

6. ACCESSORIES

All the essential accessories such as various types of connectors required at

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both end of the system, power cord etc. are required to be quoted essentially. The interconnecting cables of various types required should also be offered **optionally** along with the system for its completeness. The various types of cables required should be quoted in per meter length. The exact length of the cables, if required by Doordarshan, will be calculated as per the actual requirement at the time of ordering. All the Optional items may be quoted separately. The firm must provide enough details about optional items to decide its utility.

7. DOCUMENTATION

One set of printed technical and operation & maintenance manuals for all the equipments are to be provided on non-returnable basis along with the tender to facilitate the technical evaluation, otherwise the tender is liable to be ignored. The successful bidder will have to supply one set of printed operation, service and maintenance manuals with respect to each equipment.

8. GUARANTEE

- (a) The system should be guaranteed for two years of trouble free operation from the date of supply. In case of any equipment failure including software and hardware within this period, the same shall be rectified or replaced free of cost to Doordarshan.
- (b) The guarantee should cover all hardware, software and modules of the complete system.

9. DEMONSTRATION

If necessary, the firm may be asked for demonstration of the offered system as part of the technical evaluation. In such case the firm will have to make suitable arrangement for the demonstration of the offered system at Doordarshan Bhawan, New Delhi, on notice of 7 days. Accordingly the firm should be in readiness for demonstration on a notice of 7 days.

10. INSPECTION

The equipment shall be subjected to inspection by Doordarshan officials at New Delhi.

11. ENCLOSURES

The bidder must necessarily submit the following enclosures along with the technical bid:

- (a) Compliance statement with respect to all the points of the specifications duly signed by the OEM.
- (b) The reference to the page number of enclosed literature for all features and technical specifications should be essentially mentioned in the relevant column of the compliance statement.
- (c) Technical manuals/Detailed technical literature/catalogues for all the offered products for substantiating the model no. and technical specification.
- (d) **Model specific broadcast user list of the offered product.**
- (e) Any other document mentioned elsewhere in the tender document.

The tender is liable to be rejected in the absence of the above enclosures with the sole responsibility of the bidder.

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DETAILS OF LEGENDS TO BE SUPPLIED PER SET

Sr. Nos.	Details of Legends	Qty.
1.	CAMERA-1	2 Nos.
2.	CAMERA-2	2 Nos.
3.	CAMERA-3	2 Nos.
4.	VCR-1	2 Nos.
5.	VCR-2	2 Nos.
6.	VCR-3	2 Nos.
7.	CG	2 Nos.
8.	PGM	2 Nos.
9.	PVW	2 Nos.
10.	OB/MW	2 Nos.
11.	PROMPTER	2 Nos.
12.	EXTERNAL	2 Nos.
13.	DVE	2 Nos.
14.	ON AIR	2 Nos.
15.	OFF AIR	2 Nos.
16.	SERVER-1	2 Nos.
17.	SERVER-2	2 Nos.
18.	ROUTER	2 Nos.
TOTAL		36 nos.

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Total quantity: 31 Sets

BILL OF MATERIAL PER SET

Sr. Nos.	Details of Item	Qty. per Set
1.	Static Under Monitor Display System with necessary power supply unit	1 No.
2.	Static Under Monitor Display Units	18 Nos.
3.	Legends- 2 nos. per UMD as detailed in Appendix-I	36 Nos.
4.	Various types of connectors required at both ends of the cables	18 Lots
5.	Various types of cables required to be offered per meter length as an optional item.	To be decided at the time of ordering
6.	Operation manual/User Guide/ Technical Manual/ Installation Manual etc.	1 Lot
7.	Service and maintenance Manuals	1 Lot

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**EQUIPMENT ARE BEING PROCURED FOR THE FOLLOWING
DOORDARSHAN CENTRES**

Sl. No.	Zone	Location of Doordarshan Centre	Qty.
1.	North Zone (NZ)	Jammu	1 set
2.		Chandigarh	1 set
3.		Bareilly	1 set
4.		Shimla	1 set
5.		Allahabad	1 set
6.		Mau	1 set
7.	East Zone (EZ)	Daltonganj	1 set
8.		Mujjafarpur	1 set
9.		Ranchi	1 set
10.		PPC Guwahati	1 set
11.		Siliguri	1 set
12.		shillong	1 set
13.		Tura	1 set
14.		Kohima	1 set
15.		Itanagar	1 set
16.		Imphal	1 set
17.		Silchar	1 set
18.		Dibrughar	1 set
19.		Aizwal	1 set
20.		Agartala	1 set
21.		Sambalpur	1 set
22.	Gangtok	1 set	
23.	South Zone (SZ)	Gulbarga	1 set
24.		Pondicherry	1 set
25.		Vijayavada	1 set
26.		Portblair	1 set
27.	West Zone (WZ)	Panaji	1 set
28.		Raipur	1 set
29.		Rajkot	1 set
30.		Pune	1 set
31.		Indore	1 set
TOTAL			31 sets

